

US-PAT-NO: 6565718

DOCUMENT-IDENTIFIER: US 6565718 B1

TITLE: Magnetic recording medium with high  
density, thin dual  
carbon overcoats

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Brief Summary Text - BSTX (16):

Prabhakara et al., in U.S. Pat. No. 5,855,746, discloses a magnetic recording medium having a plurality of carbon-containing protective layers with an outer nitrogen-containing layer, wherein nitrogen is excluded from the initial carbon deposition for improved coercivity. Hwang et al., in U.S. Pat. No. 5,785,825, disclose a dual phase carbon overcoat including an initial amorphous carbon film on a magnetic layer and a doped amorphous carbon film sputter deposited on the amorphous carbon film. Lal et al., in U.S. Pat. No. 5,714,044, disclose a magnetic recording medium containing first and second carbon overcoats, wherein the second carbon overcoat is deposited under a nitrogen-containing atmosphere. Onodera, in U.S. Pat. No. 5,607,783, discloses a magnetic recording medium containing single or plural carbon-containing protective layers with increasing hydrogen content. Nagao et al., in U.S. Pat. No. 4,869,797 disclose a method of sputter depositing a carbon protective layer with a bias voltage of -10V to -100V applied in the vicinity of the support and magnetic layer.

US-PAT-NO: 5718811

DOCUMENT-IDENTIFIER: US 5718811 A

TITLE: Sputter textured magnetic recording  
medium

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Detailed Description Text - DETX (11):

In conventional manufacturing practices, a plurality of substrates are provided on a pallet, and various layers of the magnetic recording medium sequentially sputtered thereon, e.g., underlayer, magnetic layer and carbon overcoat. Accordingly, in accordance with the present invention, the heat input to the substrate can be controlled by varying the pallet travel speed as it passes in proximity to a heating source, such as a quartz radiant heater.